



## ADDING & SUBTRACTING RADICALS

Find the equation of the line that is perpendicular to  $y = -2x + 5$  and goes through the point  $(-2, -5)$ .

To add and subtract radicals: 1) Simplify radicals, if possible.  
2) Combine like terms.

**EXAMPLES:** Perform the indicated operation(s).

1)  $4\sqrt{7} + 5\sqrt{7} =$  \_\_\_\_\_

2)  $8\sqrt{11} - 2\sqrt{11} =$  \_\_\_\_\_

3)  $7\sqrt{3} + 2\sqrt{2} - 3\sqrt{2} - \sqrt{3} =$  \_\_\_\_\_

4)  $3\sqrt{6} - 2\sqrt{13} + 5\sqrt{6} =$  \_\_\_\_\_

5)  $5\sqrt{192} - 7\sqrt{3} =$  \_\_\_\_\_

6)  $5\sqrt{3} - 2\sqrt{75} =$  \_\_\_\_\_

7)  $25\sqrt{2} + 2\sqrt{27} - 3\sqrt{98} =$  \_\_\_\_\_

8)  $7\sqrt{3} - 4\sqrt{6} + 2\sqrt{48} - 6\sqrt{54} =$  \_\_\_\_\_